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(New) The sensor device of claim 11 wherein the solution of thin film material comprises a silicone-based surface modifying agent.

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(New) The sensor device of claim 11 wherein the solution of thin film material comprises a mixture of a silicone-based surface modifying agent and a solvent.

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(New) The sensor device of claim 11 wherein the solution of thin film material comprises a mixture resulting from dissolution of a thiol compound in a solvent.

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(New) The sensor device of claim 11 further comprising gold thin films on the surfaces of the electrodes.

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(New) The sensor device of claim 11 in which the electrodes comprise microelectrodes.
